

Material Safety Data Sheet  
Multicore Solders, Inc.  
1751 Jay Ell Drive  
Richardson, TX 75081

Preparer: Robert Gilbert  
Information: 972-238-1224

MSDS No: 194  
MSDS Date: 1/7/99  
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**Identity:**  
**PART LUBE 9D CAN**

**IN THE EVENT OF CHEMICAL EMERGENCIES  
INVOLVING A SPILL, LEAK, FIRE, EXPOSURE,  
OR ACCIDENT INVOLVING CHEMICALS:  
800-424-9300**

N.F.P.A. /Health: 1  
Fire: 3  
Reactivity: 0

**Transportation Requirements:**  
D.O.T. Hazard Class: N/A  
D.O.T. Proper Shipping Name: ORM-D  
UN Code: N/A  
D.O.T. Label Required: N/A  
Packing Group: N/A

**Section I (Hazardous Ingredients / Identity Information)**

Hazardous Components	CAS. Number	OSHA Pel	ACGIH TLV	SARA 313 Percent
VM&P Naphtha	8032-32-4	100 NL	300 ppm	10-15
Tetrachloroethylene	127-18-4	200 ppm	25 ppm	10-20
Toluene	108-88-3	ppm	50 ppm	10-20
Odorless Kerosene	8008-20-6	NL	NL	1-2

**Section II (Physical / Chemical Characteristics)**

Boiling Point: 240 °F  
Vapor Density (Air=1): 4.5  
Evaporation Rate (Butyl Acetate = 1) N/A  
Solubility in Water: Insoluble  
Appearance and Odor: Cloudy pinkish liquid with a petroleum odor.

Specific Gravity: (Water = 1): @ 25° C: 0.96  
Vapor Pressure (mm Hg.) @ 68° F: 20  
Percent Volatile By Volume: 95

**Section III (Fire and Explosion Hazard Data)**

Flash Point (Method Used) 57 °F (PMCC)  
Flammable Limits: LEL: 1 UEL: 6

**Extinguishing Media:** Carbon Dioxide, Alcohol Resistant Foam, Dry Chemical

**Special Fire Fighting Procedures:**  
Evacuate Hazard Area of Unprotected Personnel. Wear Protective Clothing, including NIOSH Approved Self-Contained Breathing Apparatus

**Unusual Fire and Explosion Hazards:** Aerosol cans may explode if exposed to high heat.

**Section IV (Reactivity Data)**

**Stability:** Unstable? No Stable? Yes

**Incompatibility (Materials to Avoid):**

Avoid contact with caustic soda, caustic potash (or oxidizing materials).

**Hazardous Decomposition or By-products:**


Hydrogen chloride and possibly traces of phosgene.

**Hazardous Polymerization:** May Occur? No Will not occur? Yes

**Conditions to Avoid:** Avoid heat, sparks and open flames.

N/A - Not Applicable NL - Not Listed

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Distributed By -  

**FREEMAN Mfg. & Supply Co.**  
 1101 MOORE ROAD  
 AVON, OHIO 44011-1011 (800) 321-8511

**Section V (Health Hazard Data)**

No: 194

**Routes of Entry:**

Inhalation? Yes Skin? No Ingestion? Yes Other: None

**Health Hazards (Acute and Chronic)**

Acute: Primarily a central nervous system depressant. Liquid may irritate eyes, skin, nose and throat.  
Chronic: Prolonged exposure above the OSHA permissible limits may result in liver and kidney damage.

*California Proposition 65 Warning!* This product contains chemicals known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

**Carcinogenicity:**

NTP? Yes IARC Monographs? Yes OSHA Regulated? No Other? Yes - NIOSH  
Tetrachloroethylene is listed by IARC as a possible human carcinogen.

**Signs and Symptoms of Exposure:**

Inhalation can cause irritation of the respiratory system, dizziness, nausea and headache. Eye contact can result in discomfort, pain and irritation. Skin contact can cause irritation.

**Medical Conditions Generally Aggravated by Exposure:**

Acute or chronic liver disease and rhythm disorders of the heart. *Note to physician: Adrenaline should never be given to persons overexposed to tetrachloroethylene.*

**Emergency First Aid Procedures**

**Eyes:** Flush with copious quantities of water. Get medical attention.  
**Skin:** Wash with soap and water.

**Inhalation:** Remove from exposure. Get medical attention if experiencing effects of overexposure.  
**Ingestion:** Get immediate medical attention. Induce vomiting by touching finger to back of throat.

Keep victim's head below hips while vomiting. Keep

**Section VI (Precautions for Safe Handling and Use)**

**Steps to be Taken in Case Material is Released or Spilled:**

Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the hazard area of unprotected personnel. Absorb spilled material with absorbent material and place in non-leaking container.

**Waste Disposal Method:**

Dispose of in accordance with local, state and federal regulations.

**Precautions to be Taken in Handling and Storing:**

Keep away from heat, sparks and open flames. Keep containers tightly closed. Ground all handling equipment. Store in a cool dry place. Do not store in unlabelled containers. Aluminum equipment should not be used. Vapors are heavier than air and will collect in low areas.

**Other Precautions:** Do not incinerate aerosol cans.

**Section VII (Control Measures)**

**Respiratory Protection (Specify Type):**

If exposure exceeds limits, use a NIOSH approved respirator.

**Ventilation:**

Local exhaust: Preferable

Mechanical (General): Adequate

Special: None needed

**Protective Gloves:** Viton, butyl, nitrile

Other: None needed.

**Eye Protection:** Chemical Goggles

**Other Protective Clothing or Equipment:**

Wear protective clothing to prevent skin contact. Safety shower and eye wash station.

**Work/Hygenic Practices:**

Wash with soap and water before eating, drinking, smoking or using toilet facilities.